

U.S. EPA Science Advisory Board

Drinking Water Committee

FY 2004 Member Biosketches

Drinking Water Committee

Davis, Mary

West Virginia University Health Sciences Center

Dr. Mary E. Davis is a Professor of Toxicology in the Department of Physiology and Pharmacology at West Virginia University Health Sciences Center. Her research interests are in the mechanisms of toxicity, focusing on renal and cardiovascular systems and liver and emphasizing agents of environmental and occupational interest, including halomethanes and disinfection by-products. She earned a doctorate in Pharmacology from Michigan State University in 1977. Dr. Davis is a member of the Editorial Board of Toxicology and Applied Pharmacology, and has served on the Editorial Board of Toxicology. She served as Treasurer for the Society of Toxicology. Dr. Davis previously served on two NRC Subcommittees on the health effects of disinfectants and their by-products and use of physiologically-based pharmacokinetics in risk assessment. She served as an external reviewer of EPA's risk assessment of the WTI hazardous waste incinerator and of EPA's proposed guidelines for human health risk assessment protocol for hazardous waste incinerators. In addition to serving on the DWC, Dr. Davis has been the SAB Liaison to the National Drinking Water Advisory Council (NDWAC) and was a member of the SAB's Chloroform Review Panel.

DeLeon, Ricardo

Metropolitan Water District of Southern California

Dr. De Leon is the Laboratory Manager for the Microbiology Unit of the Water Quality Laboratory of Metropolitan Water District of Southern California. The Microbiology Unit consists of the Compliance, Development and Reservoir Management Teams. His area of expertise is water microbiology, methods development for detection of microorganisms in water, inactivation of pathogens by disinfection and removal by treatment technology. He is currently working primarily on drinking water but his expertise also includes water reuse and public health issues associated with water. He has been working in the area of water microbiology since 1983. Dr. De Leon holds a Bachelor's of Science in Microbiology and a Ph.D. in Microbiology and Immunology from the University of Arizona and did post-doctoral training in the Department of Environmental Sciences and Engineering of the University of North Carolina. He was also a faculty member at the University of California, Irvine Campus prior to joining Metropolitan Water District. He has been the principal or co-principal investigator on 22 research grants on methods development, disinfection of microorganisms and microbial aspects of water treatment technology. He has published more than 29 journal articles and book chapters on pathogen detection in environmental samples. He is currently serving in the Drinking Water Committee of the Science Advisory Board to the U.S. Environmental Protection Agency and on the National Research Council Committee on Indicators of Pathogens in Water.

Fenner-Crisp, Penelope

International Life Sciences Institute

Dr. Fenner-Crisp is the Executive Director of the Risk Science Institute of the International Life Sciences Institute (ILSI), a global, non-profit, scientific organization dedicated to seeking scientific solutions to important public health issues related to food and nutrition, food safety, water quality, chemical safety and environmental health and assessment of human health and environmental risk. Funding for the Risk Science Institute comes primarily from national and multinational governmental agencies (e.g., USEPA, NIEHS, NCI, NIOSH, USDA, Health Canada and the European Union), along with additional unrestricted funds from the ILSI Research Foundation endowment and occasional donations of unrestricted monies from ILSI member company-based branches. She received a B.S. in Zoology from the University of Wisconsin-Milwaukee, an M.A. and Ph.D. in Pharmacology from the University of Texas Medical Branch-Galveston and spent two years at Georgetown University Schools of Medicine and Dentistry as a post-doctoral fellow in Pharmacology-Morphology from the then-Pharmaceutical Manufacturer's Association Foundation. Dr. Fenner-Crisp's current areas of expertise include human health and environmental risk assessment, toxicology, science policy and its integration into regulatory decision-making and familiarity with environmental regulatory programs and practices, all of which are a continuation of her activities and responsibilities during her 22 years at EPA. Her current service on advisory committees and boards consists of membership as a representative of an NGO on EPA's Endocrine Disruptor Methods Validation Subcommittee, a public member on the American Chemistry Council's Long-range Research Initiative & Strategic Science Team and a member of the board of Citizens for a Better Environment, a Wisconsin-based environmental group which focuses primarily on environmental impacts on the Great Lakes. She also is on the board of the American Board of Toxicology. She is a Charter member of the Society for Risk Analysis (SRA), having received its first Risk Practitioner's Award in 1996, the Capital Area Chapter of SRA, and a long-time member of the Society of Toxicology and its National Capital Area Chapter, AWIS, AAAS, as well as an associate member of the Association of Government Toxicologists.

Grant, Stanley B.

University of California, Irvine

Dr. Stanley Grant is currently a Professor of Environmental Engineering, and Chairman of the Department of Chemical Engineering and Materials Science, UCI. Dr. Grant received his B.S. with distinction, in Geology from Stanford University in 1985; and his M.S. and Ph.D. in Environmental Engineering and Science in 1990 and 1992, respectively, from California Institute of Technology. Dr. Grant was Assistant Professor of Environmental Engineering at UCI from 1991-96, Associate Professor of Environmental Engineering at UCI from 1996-2001, Professor of Environmental Engineering at UCI from 2001 to present, and Department Chairman from 2002 to present. His professional interests include environmental engineering, coastal water quality, coagulation and filtration of colloidal contaminants and environmental microbiology. Dr. Grant professional service has included 1) membership on the National Water Research Institute Blue Ribbon Review Panel (2000), 2) US EPA Drinking Water Proposal Review Panel (2000), 3) UC Water Resources Center Advisory Board (1999 to 2002), 4) Orange County Coast Watch Board of Directors (2000), 5) Water Environment Research Foundation Proposal Review Panel (1999-2000) and 6) NSF-EPA Water and Watersheds Proposal Review Panel (1996). He is a member of the American Chemical Society, American Association for the Advancement of Science and the American Society of Civil Engineers. Research funds for Dr. Grant's research come from federal (National Science Foundation, Environmental Protection Agency), private (National Water Research Institute), State (State Water Resources Control Board), and local (Orange County and the cities of Huntington Beach, Fountain Valley, Costa Mesa and Santa Ana) sources.

Griffiths, Jeffrey

Tufts University

Dr. Jeffrey Griffiths is currently Director of the Graduate Programs in Public Health, Tufts University School of Medicine. Associate Professor of Family Medicine and Community Health, Medicine, and Biomedical Sciences, Tufts University Schools of Medicine and Veterinary Medicine; Associate Physician, Division of Geographic Medicine and Infectious Diseases, New England Medical Center; Physician, Department of Infectious Diseases, St. Elizabeth's Medical Center, and Consulting Physician, Divisions of Infectious Diseases, Carney Hospital and Quincy Hospital. Dr. Griffiths received is AB in Chemistry in 1977 from Harvard College and a MD from Albert Einstein College of Medicine in 1982. He received a MPH and TM in Tropical Medicine from Tulane University in 1982. Internships occurred at Yale-New Haven Hospital, 1982-84 in Internal Medicine and Pediatrics; Research Fellow in Tropical Public Health at Harvard School of Public Health in 1986-88; Research and Clinical Fellow at Tufts-New England Medical Center from 1988-91 in Geographic Medicine and Infectious Disease; National Board of Medical Examiners certification in 1984. He received a Connecticut Licensure in Medicine, 1985; Massachusetts Licensure in Medicine, 1986; Diplomate, American Board of Internal Medicine (ABIM), 1987; Diplomate, American Board of Pediatrics, 1987; Govt. of Bangladesh Licensure in Medicine, 1989; Diplomate, Sub-specialty Board in Infectious Diseases, ABIM, 1992; and Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health, 2000. National Committees or Advisory Groups: Member, National Academies' Committee on Drinking Water Contaminants (1999-2001); Member, Public Interest Advisory Forum, American Water Works Association (1999-2001), Public Health Subgroup; Member, National Drinking Water Advisory Council of the EPA (1998-2000; 2001-2003); Federal representative for the National Association of People with AIDS (NAPWA) to the EPA Drinking Water Microbial Disinfection and Byproducts Committee, 1997-current; Member, AIDS Clinical Trials Group (ACTG) Focus Group on Enteric Pathogens, 1998-; Member, AIDS Clinical Trials Group (ACTG) Focus Group on Microsporidiosis and Cryptosporidiosis, 1996-1998; Consultant to ACTG 336, A Phase II/III Placebo-controlled study of Nitazoxanide (NTZ) for persons with AIDS and Cryptosporidiosis. Other Research & Professional Experience: Director of Microbiology and Serology, St. Elizabeth's Medical Center, 1991-1997; Director, Traveler's Clinic, St. Elizabeth's Medical Center, 1991-1997; Consultant, the Applied Diarrheal Diseases Project, Harvard Institute of International Development, 1991-94; represented USAID to the government of Ecuador during the cholera outbreak; experience in Ecuador and Central America; Field work at the International Centre for Diarrheal Diseases Research in Dhaka, Bangladesh 1988-89; Fellow in Tropical Nutrition, Tulane Univ. School of Public Health and Tropical Medicine, New Orleans, LA. July 1981-June 1982; Field work on the north coast of Haiti, 1981.

Harper, Barbara

AESE, Inc.

Dr. Harper is an independent consultant in the areas of toxicology, risk assessment, CERCLA oversight, tribal water quality, and environmental management. She is affiliated with AESE, Inc. AESE's clientele consists entirely of Tribes/Alaska Natives. She is also an adjunct faculty member of Oregon State University's Public Health Department. Dr. Harper is a board-certified toxicologist (Diplomate of the American Board of Toxicology, 1989). She received her B.A. degree cum laude with departmental honors in biology from Occidental College in 1970. She received her PhD in genetics from the University of Texas at Austin in 1974. She was on the faculty of the University of Texas Medical Branch (UTMB) at Galveston in the Department of Preventive Medicine and Community Health; Division of Genetic and Environmental Toxicology. She then took a position with the Commonwealth of Pennsylvania's Department of Environmental Resources, and developed and managed the Special Science and Resources Program. She taught risk assessment as an adjunct faculty member at Penn State Harrisburg during this time period as well. She was recruited by Battelle's Pacific Northwest National Lab as a program manager in risk assessment in 1993 (Hanford), where she started working on tribal risk issues. She joined the Yakama Nation ERM Program in 1997 and developed methods for tribal risk assessment methods now in use at DOE and EPA, and continues to develop tribally-relevant methods for evaluating cumulative risks and impacts to tribal health and culture. Her research interests include contamination of fish and other tribal subsistence foods, the associated health effects, eco-cultural and human health risk method development, nutrition, anthro-toxicology, and tribal parameters for subsistence exposure assessment.

Hertz-Picciotto, Irva

University of California – Davis

Irva Hertz-Picciotto, Ph.D., is Professor at the Department of Epidemiology and Preventive Medicine at the University of California, Davis. Dr. Hertz-Picciotto received her Master's of Arts in Biostatistics, a Ph.D. in Epidemiology and a Master's of Public Health from the University of California, Berkeley. She has held positions as Assistant, Associate and Full Professor at the University of North Carolina, Chapel Hill, and most recently joined the Department of Epidemiology and Preventive Medicine at the University of California, Davis. Dr. Hertz-Picciotto serves on editorial boards for the two major journals in her field, namely Epidemiology and the American Journal of Epidemiology, as well as for Human and Ecological Risk Assessment. She served as Chair of the Institute of Medicine/National Academy of Science's Veterans and Agent Orange: Update 2000 committee, and is currently Chair of the IOM/NAS Update 2002 committee. Dr. Hertz-Picciotto is also a member of the Board of Scientific Counselors of the U.S. National Toxicology Program, the Food Safety in Europe Working Group sponsored by the International Life Sciences Institute, and the Carcinogen Identification Committee of the California Governor's Scientific Advisory Board. She is currently President of the International Society for Environmental Epidemiology, and was recently a delegate to the NIEHS-sponsored U.S.-Vietnam Scientific Conference on the Environmental and Health Effects of the Vietnam War. She founded the Center on Environmental Health and Susceptibility at the University of North Carolina, Chapel Hill. For over ten years, she has taught methods for epidemiologic data analysis in Chapel Hill, and has taught courses on four continents. Dr. Hertz-Picciotto has published seminal papers on the use of epidemiology in quantitative risk assessment and is internationally renowned for her work in this field, as well as occupationally related cancer, environmental exposures, reproductive outcomes, and methods for epidemiologic research. Her current and recent research is or has been supported by the US NIEHS (National Institute of Environmental Health Sciences), NCI (National Cancer Institute), the M.I.N.D. (Medical Investigations of Neurodevelopmental Disorders) Institute, the U.S. EPA, the Hawaii Heptachlor Research and Education Foundation, and the Health Effects Institute.

Landolph, Joseph

University of Southern California

Dr. Joseph R. Landolph is currently Associate Professor of Molecular Microbiology and Immunology and Pathology and a Member of the USC/Norris Comprehensive Cancer Center, in the Keck School of Medicine and Associate Professor of Molecular Pharmacology and Toxicology, in the School of Pharmacy, with tenure, at the University of Southern California (USC) in Los Angeles, California. Dr. Landolph received a B. S. degree in Chemistry from Drexel University in 1971 and a Ph. D. in Chemistry from the University of California at Berkeley in 1976, under the guidance of the late Professor Melvin Calvin, where he studied the metabolism of the chemical carcinogen, benzo(a)pyrene, and its ability to induce cytotoxicity in cultured mouse liver epithelial cells and morphological transformation in Balb/c 3T3 mouse fibroblasts. Dr. Landolph performed postdoctoral study in chemical carcinogenesis and chemically induced morphological and neoplastic cell transformation and mutagenesis at the USC/Norris Comprehensive Cancer Center at the University of Southern California under the late Professor Charles Heidelberger from 1977-1980. Dr. Landolph was appointed Assistant Professor of Pathology in 1980, and Associate Professor of Microbiology, Pathology, and Toxicology at USC in 1987. Dr. Landolph has served as a grant reviewer for the U. S. EPA. Health Effects Panel, for special RFAs for the NIEHS, and as an ad hoc member for the Chemical Pathology Study Section and the AI-Tox-4 Study Section of the NIH. Dr. Landolph has also been a member of the Carcinogen Identification Committee reporting to the Scientific Advisory Committee of the Office of Environmental Health Hazard Assessment of the California Environmental Protection Agency from 1994-2002. He is the recipient of numerous awards, including the Merck Award in Chemistry and the Superior Cadet Award in ROTC from Drexel University in 1971, the Edmundson Teaching Award in the Dept. of Pathology at USC in 1985, a Traveling Lectureship Award from the U. S. Society of Toxicology in 1990, and a competitive American Cancer Society Postdoctoral Fellowship from 1977-1979. Dr. Landolph's research interests and activities include studies of the genetic toxicology and carcinogenicity of carcinogenic insoluble nickel compounds, carcinogenic chromium compounds, carcinogenic arsenic compounds, and carcinogenic polycyclic aromatic hydrocarbons. His laboratory is focused on studying the ability of these carcinogens to induce morphological and neoplastic transformation of C3H/10T1/2 mouse embryo cells and the cellular and molecular biology of the transformation process. His laboratory is currently studying the ability of carcinogenic nickel compounds to induce activation of expression of oncogenes and inactivation of expression of tumor suppressor genes in cells transformed by insoluble carcinogenic nickel compounds, such as nickel subsulfide, crystalline nickel monosulfide, and green (high temperature) and black (low temperature) nickel oxides. His laboratory is also studying the molecular biology of chromium compound-induced cell transformation and the role of valence in cell transformation by various chromium-containing compounds. Dr. Landolph is an expert in chemically induced morphological and neoplastic transformation and chemically induced mutation in murine and human fibroblasts. He is the author of 32 peer-reviewed scientific publications, 21 book chapters/review articles, and has held peer-reviewed research grant support from the U. S. EPA, the U. S. National Cancer Institute, and the U. S. Institute of Environmental Health Sciences.

Louis, Thomas

Johns Hopkins University

Thomas A. Louis, Professor of Biostatistics, Johns Hopkins Bloomberg School of Public Health. Ph.D. in Mathematical Statistics from Columbia University, Assistant Professor, Department of Mathematics, Boston University (1973-1978); Associate Professor, Department of Biostatistics, Harvard School of Public Health (1978-1987); Professor, Division of Biostatistics, University of Minnesota School of Public Health (1987-2000, Division Head 1987-1999); Senior Statistical Scientist, RAND (2000--2002). Visiting scholar, Committee on National Statistics (CNSTAT), National Academy of Sciences (1999). Dr. Louis is an elected member of the International Statistical Institute, a Fellow of the American Statistical Association and of the American Association for the Advancement of Science. He served as President of the Eastern North American Region of the International Biometrics Society and is chair-elect of the American Statistical Association's Section on Bayesian Statistical Science. Dr. Louis is coordinating editor of The Journal of the American Statistical Association. He serves on the executive committee of the National Institute of Statistical Sciences and on the Health Review Committee of the Health Effects Institute. Dr. Louis has published more than 150 articles and books and delivered more than 250 invited presentations. His research interests include environmental, health and public policy studies and development of related statistical procedures. Methods research concentrates on Bayesian modeling including small area estimation, the analysis of observational studies and research synthesis. Current applications include assessing the health effects of airborne particulate matter, assessment of environmental justice, clinical quality improvement, cardio-pulmonary consequences of AIDS therapies, modeling pregnancy outcome history and evaluation of teacher effectiveness. Dr. Louis's Academy service includes membership on CNSTAT and on the Board of the IOM's Medical Follow-up Agency. He served on the IOM Panel to Assess the Health Consequences of Service in the Persian Gulf War, on the CNSTAT Panel on Estimates of Poverty for Small Geographic Areas and chaired the CNSTAT Panel on Formula Allocation of Federal and State Program Funds. He is nominated for his extensive research in environmental, health and public policy and development of related statistical procedures.

Owen, Christine

Tampa Bay Water

Christine Owen is the Water Quality Assurance Officer for Tampa Bay Water, a regional water utility in southwest Florida. Dr. Owen received a Doctorate of Philosophy (a.b.d.) in Biology at U.C.S.C., 1991 and a B.S. in Biology from Shippensburg State College, 1980. Chris is responsible for integrating water quality into the operation of groundwater, surface water and desalination facilities. She works with member utilities and regulatory agencies to address their distribution water quality needs and issues. She has worked in water treatment for the past thirteen years; prior to that, she taught at the University of California at Santa Cruz. She has both participated in and directed numerous research projects ranging from taste and odor analytical method development to membrane integrity investigations. Chris has been involved in numerous projects including ozone, GAC, integrated membranes and distribution water quality. In addition, she has presented papers at national meetings and was an invited presenter on a national AWWA teleconference on water treatment and regulations in 1999. She is a member of the Microbial Technical Advising Workgroup for AWWA, a utility representative to the Technical Work Group for the Stage 2 Disinfection/Disinfection By-Product Rule, a utility representative for AWWA on the Technical Work Group for the ICR Public Database Development, member AWWA Standards Committee, member AWWA Laboratory Committee, member AWWA Desalting Committee. Dr. Owen managed all aspects of Tampa Water Department Information Collection Rule Compliance including database management, data review, laboratory certification, laboratory coordination, sample collection and quality assurance/quality control.

Rose, Joan B.

Michigan State University

Dr. Joan Rose serves as the Homer Nowlin Chair in Water Research of the Michigan State University. Dr. Rose received her B.S., M.S. and Ph.D. in Microbiology from the University of Arizona in 1976, 1980 and 1985, respectively. She served as a Professor in the College of Marine Science, USFL from 1998-2002 and Associate Professor, Department of Marine Science, USFL from 1994-1997. In 1995, Dr. Rose had a Courtesy Appointment, as Associate Professor, Department of Civil Engineering, USFL. From 1989-1994, she was an Assistant Professor, Department of Environmental and Occupational Health, USFL; and from 1986-1989, she served as Research Associate/Lecturer, Department of Microbiology and Immunology, UAZ. Dr. Rose's professional experience includes environmental virology, environmental parasitology, drinking water treatment and disinfection, microbial risk assessment, wastewater treatment and reuse, water pollution microbiology, mycology and food microbiology. Teaching experience and educational activities include virology, food microbiology, environmental and occupational health, biotechnology and public health, analysis of water and wastewater, environmental microbiology, environmental virology, water pollution microbiology and risk assessment. Named as one of the 21 most influential people in Water in the 21st Century by Water Technology Magazine. 2000. Current service on advisory committees include 1) the Science Advisory Board of the International Commission of the Great Lakes, 2003-05, 2) Research Advisory Council for the Water Reuse Foundation, 2003-06, 3) Alan T. Waterman Award Committee, National Science Foundation, 2002-05, 4) Vice-Chair of USA National Committee for the International Water Association, 2002-05, 5) Research Advisory Board, National Water Research Institute, 2002-04, 6) Board of Directors, Association of Environmental Engineering and Science Professors, 2002-04, 7) Council Policy Committee for the American Society of Microbiology, 2001-2004, 8) Appointed to Life Sciences Board of National Academy of Science, National Research Council, 2001-2004 and 9) Appointed to Water Science and Technology Board of National Academy of Science, National Research Council, 1998-2004. Professional society memberships include American Academy of Microbiologists, American Public Health Association, American Society of Microbiology, American Society for Testing and Materials, American Water Works Association (AWWA), Society for Risk Analysis, International Water Assoc. and Water Environment Federation. Sources of recent grant and/or contract support include Montgomery Watson, Inc.; SWFMD, Tampa Bay Water, CH2MHILL, EPA, Water Environ. Research Foundation, NSF, AWWARF, Michigan Applied Policy Research Funds, and Michigan Sea Grant.

Sayler, Gary

University of Tennessee, Knoxville

Dr. Gary S. Sayler is a Distinguished Professor of Microbiology, and Ecology and Evolutionary Biology at the University of Tennessee. He received his Ph.D. (1974) in Bacteriology and Biochemistry from the University of Idaho where he conducted research of heterotrophic turnover of organic matter in freshwater environments. This was followed by postdoctoral training in Marine Microbiology and Biodegradation at the University of Maryland after which he joined the faculty of the University of Tennessee in 1975. He is the Founding Director (1986) of the Center for Environmental Biotechnology, a recently designated Research Center-of-Excellence, and is current Director of the State Center-of-Excellence, Waste Management Research and Education Institute. Over his career he has directed approximately \$25,000,000 in environmental, biodegradation, and molecular ecological research for numerous federal, state, and industrial sponsors. He has directed the graduate programs of approximately 34 Ph.D. and 15 Master's students in Microbiology, Ecology, and Evolutionary Biology. He has edited five books and contributed 251 publications in broad areas of molecular biology, environmental microbiology, biodegradation, and biotechnology, and holds seven patents on environmental gene probing, genetic engineering for bioremediation and bioelectronic sensor technology. His work has included molecular and environmental aspects of PCB, PAH, BTEX and TCE metabolism. He has given invited presentations at over 200 national and international meetings in the broad area of biotechnology and the environment. He has served on numerous panels and chaired advisory review committees of ORNL, LBNL, ANL, NSF, NIH, DOE, EPA, and four different NAS/NRC subcommittees and panels. During his career, he has been awarded a NIEHS' Research Career Development Award (1980-1985); he received the American Society for Microbiology, Procter and Gamble Award for Environmental Microbiology (1994), the Distinguished Alumni Award of the University of Idaho (1995) and the DOW Chemical Foundation SPHERE Award (1998-2000). He was elected to the American Academy of Microbiology in 1991. He has served in an editorial capacity for six journals and is currently an associate editor for Environmental Science and Technology. Professional memberships include AAAS, ASM, ACS, SIM, SETAC and SPIEE. Dr. Sayler served as a member of the Water Environment Research Foundation, Research Council from 1999 to 2001. Recent research support is from NIH, NASA, DARPA, NSF, USDA, WERF, US Army, DOE, Perkin Elmer Instruments and Eastman Chemical in areas integrating Bioluminescent Bioreporter Integrated Circuit technology, nucleic acid environmental diagnostics and expression, and biosensing and monitoring in complex system analysis. Areas of research expertise include microbiology, genetic engineering, molecular biology in biodegradation and bioremediation; PAH, PCB soils, sediments, and H₂O; molecular ecology in biological waste treatment, PCR-gene probes, biosensors for bioavailable pollutants including endocrine disruptors, nanotechnology, and carbon nanofibers in microbial biofilms.

Sedlak, David

University of California-Berkeley

Dr. David L. Sedlak is Associate Professor of Civil and Environmental Engineering at the University of California, Berkeley. Dr. Sedlak received his B.S. degree in Environmental Science from Cornell University in 1986. He received his Ph.D. degree in Water Chemistry from the University of Wisconsin in Madison in 1992 and served as a postdoctoral researcher at the Swiss Federal Institute for Environmental Science and Technology (EAWAG) from 1992 to 1994. He has received several notable awards including the Paul Busch Award for Innovation in Water Quality Engineering in 2003, the NSF CAREER Award in 1997 and the Hellman Family Faculty Award in 1996. His areas of research interest include analytical methods for measuring organic compounds in water, fate of chemical contaminants in water recycling systems, metal speciation and its effect on metal uptake and reaction, environmental photochemistry and ecological engineering.

Singer, Philip

University of North Carolina

Dr. Philip C. Singer is the Dan Okun Professor of Environmental Engineering in the Department of Environmental Sciences and Engineering in the School of Public Health at the University of North Carolina at Chapel Hill. He directed the Water Resources Engineering Program at UNC for 19 years and currently directs UNC's Drinking Water Research Center. He has conducted research on chemical aspects of water and wastewater treatment and on aquatic chemistry for the past 35 years, and has published more than 160 papers and reports in these areas. For the past 27 years, Dr. Singer's research has focused on the formation and control of disinfection by-products in drinking water. In 1993, Dr. Singer was selected for the Freese Lecture by the American Society of Civil Engineers, in 1995 he was given the A.P. Black Research Award by the American Water Works Association, and in 1999 he received the Fuller Award from the North Carolina section of the American Water Works Association. Dr. Singer has been active in the American Water Works Association, serving as a past Chair and Trustee of the Research Division, and has served on the Research Advisory Council of the American Water Works Association Research Foundation. He was on the editorial board of Ozone Science and Engineering and is a past associate editor of Environmental Science and Technology. He was a member of the Water Science and Technology Board of the National Research Council, and served on the National Research Council's Committee on Drinking Water Contaminants. He is currently on the Board of Directors of the Water Environment Research Foundation and the U.S. Environmental Protection Agency Science Advisory Board's Drinking Water Committee. In 1995, Dr. Singer was inducted into the National Academy of Engineering.

Steinberg, Laura

Tulane University

Dr. Steinberg is Associate Professor in the Civil and Environmental Engineering Department of Tulane University. She holds a B.S.E. in Civil and Urban Engineering from the University of Pennsylvania and an M.S and Ph.D. in Environmental Engineering from Duke University. She is currently on sabbatical leave from Tulane and is a Visiting Associate Professor at the School of the Environment, Duke University. Her research focuses on water quality modeling and natural hazards management. She has recently completed modeling studies of arsenic concentrations in water distribution systems and transport processes in contaminated sediments, and is working on spatial statistical modeling of heavy metals and PCBs in contaminated sediments. During the last several years, she has spent visited Turkey a number of times, investigating the impacts of the devastating earthquake of 1999 on industrial infrastructure and the environment, and evaluating the effectiveness of chemical risk management procedures. Dr. Steinberg is the chair of the American Society of Civil Engineers' National Energy and Environmental Policy Committee, and a past member of the ASCE's National Water Policy Committee. She serves on the Water Environment Federation's Disinfection Committee, and is a fellow of the Institute of Civil Infrastructure Systems and a former member of the Chapel Hill, NC Planning Board. She has consulted to the USEPA's Science Advisory Board on technology diffusion, and the Department of Energy on risk assessment. Prior to her work in academia, Dr. Steinberg was Environmental Engineering Department Head at the planning and engineering firm of Louis Berger International, and Business Development Manager at Geraghty and Miller, an environmental engineering firm. She also had the distinct honor of serving as a US Congressional Page while attending high school.

Teefy, Susan

Water Quality and Treatment Solutions, Inc.

Susan Teefy currently serves on the staff of the Water Quality and Treatment Solutions, Inc. Susan formerly served as the Operations Engineer for the Alameda County Water District in Fremont California. Since 1992, she has worked with this public water agency to ensure compliance with drinking water regulations, and analyze and optimize plant operations. She has held positions of increasing authority with the District, including Manager of the Water Production Division, which is responsible for the operation and maintenance of three water treatment plants and the distribution system. Ms. Teefy has also supervised ACWD's Environmental Engineering section, where she developed and implemented water quality monitoring programs and conducted plant optimization studies. Her particular interest is surface water treatment (particulate removal processes) and ozone disinfection. Prior to working with the Alameda County Water District, she worked at the East Bay Municipal Utility District in Oakland California, providing technical support for surface water treatment plant operations. Ms. Teefy also worked for the U.S. Environmental Protection Agency, Region 9, in San Francisco where she managed the drinking water program on Indian Lands in California. Ms. Teefy has a bachelor's degree in civil engineering from the University of California at Berkeley, and a master's degree in environmental engineering from the University of North Carolina at Chapel Hill. She is a registered civil engineer in the state of California, and a licensed water treatment plant operator (Grade 5, highest level). In 1985 she was awarded USEPA's Bronze Medal for outstanding service for significantly improving compliance with drinking water regulations on California Indian Lands. In 1989 she was the first recipient of the AWWA Larson Aquatic Research Support (LARS) Scholarship. In 1991 she received AWWA's Academic Achievement award for her Master's thesis. She has chaired AWWA's California Nevada Section Research Committee, and currently is a member of AWWA's national coagulation and filtration committee. Ms. Teefy has been a Project Advisory Committee member on several projects funded by the AWWA Research Foundation, and a peer-reviewer for the Journal of AWWA. She has served on AWWARF's Unsolicited Proposal Review Committee, as well as AWWARF and EPA-convened Expert Panels regarding water treatment issues. She has given numerous presentations at international AWWA and International Ozone Association conferences.

Trussell, R. Rhodes Chair

Trussell Technologies, Inc.

Dr. R. Rhodes Trussell is currently President and owner of Trussell Technologies, Inc., a private consulting firm. Prior to June, 2003, Dr. Trussell was Director of the Water Knowledge Center and Senior Vice President at MWH, Inc. He served in that role since September 2001. For several years prior to that he served as the firm's Director of Corporate Development and as a member of the firm's Board of Directors. The bulk of Dr. Trussell's technical career has been spent advising municipal utilities, both in the US and abroad, concerning problems of drinking water quality and treatment. Dr. Trussell is active in American Water Works Association and in the International Water Association where he serves on the program committee, the Strategic Council and the editorial board for North America. He also serves on the Water Science and Technology Board for the National Resource Council where he has served on several specific Committees, most recently those on potable reuse, the CCL, and indicators for pathogens in water. Dr. Trussell serves on the Magazine Board for Environmental Science and Technology, as a member of the Industrial Advisory Board for Engineering at UC Riverside, and as Chair of the Industrial Advisory Board for the Department of Civil Engineering at UCLA. He is also a Research Professor at the University of California at Irvine. Dr. Trussell received his B.S. (1966), M.S. (1967), and Ph.D. (1972) in Environmental Engineering from the University of California at Berkeley. He was elected to the National Academy of Engineering in 1995 and serves on the Peer Committee for Civil Engineering. For over 33 years, Dr. Trussell worked for MWH, Inc. and was solely funded by the corporation. A selected example of utilities Dr. Trussell has worked directly on projects for include: Water Bureau for Portland Oregon, the East Bay Municipal Utility District, the Sydney Water Board in Australia, United Utilities in the U.K., PWN in the Netherlands, the City of San Diego, the City of Long Beach, the Metropolitan Water district of Southern California, and the Los Angeles Department of Water and Power (12/2003).